

CLAIM AMENDMENTS

Please amend Claims 1, 3, 5, 7, 8, 14, 15 and 18-23 as follows:

1. (Currently Amended) A recording apparatus comprising:
recording means for recording on a recording medium image data and management data recorded in said management data including a start address area for recording a start address of the image data and recorded in an end address area for recording an end address of the image data; and
control means for controlling said recording means so as to record on the recording medium a predetermined value, irrespective of recording addresses where the image data are recorded and other than the recording end address, in the end address area of the management data in accordance with a recording instruction.
2. (Original) An apparatus according to Claim 1, wherein said recording means records said image data into a first area on said recording medium and records said management data into a second area on said recording medium.
3. (Currently Amended) An apparatus according to Claim 1, wherein said control means controls said recording means so as to record on the recording medium

a value corresponding to a recording end stop address of the image data in the end address area of the management data in response to in accordance with a recording stop instruction.

4. (Previously Presented) An apparatus according to Claim 1, wherein said control means controls said recording means so as to record an image data train comprising a plurality of image data groups each of which has the image data for a predetermined period and to record second management data indicating a recording end address of each of the image data groups.

5. (Currently Amended) An apparatus according to Claim 4, wherein the second management data are added to the end of each of the image data group groups and wherein said control means controls said recording means so as to overwrite a new image data group onto an address where the second management data of the image data group recorded just before has been recorded.

6. (Previously Presented) An apparatus according to Claim 4, further comprising reproducing means for reproducing the management data and the second management data from said recording medium, wherein in case that the predetermined value is recorded in the end address area of the management data reproduced by said reproducing means, and said control means controls said recording means so as to record

the recording end address of the second management data in the end address area of the management data instead of the predetermined value.

7. (Currently Amended) A recording apparatus comprising:
recording means for recording image data on a disk-shaped recording medium;
instructing means for instructing a recording of the image data and a recording stop of the image data, wherein said recording means starts to record the image data in response to the recording instruction and stops recording the image data in response to the recording stop instruction; and
control means for controlling said recording means so as to record on the disk-shaped recording medium management data including a recording start address information of the image data and flag data indicating that the recording stop of the image data by the recording stop instruction is not performed, in accordance with the recording instruction.

8. (Currently Amended) An apparatus according to Claim 7, wherein said control means controls said recording means so as to erase said flag data from the disk-shaped recording medium and to record on the disk-shaped recording medium recording end address information of the image data in response to the recording stop instruction issued by said recording means.

9. (Previously Presented) An apparatus according to Claim 7, wherein said control means controls said recording means so as to record an image data train comprising a plurality of image data groups each of which has the image data for a predetermined period and to record second management data indicating a recording end address of each of the image data groups.

10. (Previously Presented) An apparatus according to Claim 9, wherein the said management data are added to the end of the image data group and wherein said control means controls said recording means so as to overwrite a new image data group and address where the second management data of the image data group recorded just before has been recorded.

11. (Previously Presented) An apparatus according to Claim 9, further comprising reproducing means for reproducing the data from said recording medium, and wherein said control means controls said recording means so as to record the recording end address of the second management data in the end address area of the management data instead of the flag data.

12. (Original) An apparatus according to Claim 7, wherein said recording means includes encoding means for encoding the image data and records said encoded image data.

13. (Original) An apparatus according to Claim 7, wherein said recording means includes a memory for storing said management data, forms said management data by using said memory, and records the management data stored in said memory onto said disk-shaped recording medium in response to said recording stop instruction.

14. (Currently Amended) A recording apparatus for recording image data and table data for reproduction management of the image data onto a disk-shaped recording medium,

wherein said apparatus records onto the disk-shaped recording medium the table data including flag information indicating that the recording of the image data is not normally finished in accordance with a recording instruction and deletes the flag information from the table data recorded on the disk-shaped recording medium when the recording of the image data is normally finished.

15. (Currently Amended) A recording apparatus comprising:
recording means for recording an image data train comprising a plurality of image data groups each of which has image data of n frames (n is an integer of 2 or more) on a disk-shaped recording medium; and

control means for controlling said recording means so as to record the image data train comprising the plurality of image data groups and first management data

including a recording end address information indicating a recording end address of each of the image data groups train in an image data area on the disk-shaped recording medium every time one data group is recorded and to record second management data including recording start address information indicating a recording address of the image data train and flag information indicating the recording of the image data is not normally finished in a management data area on the disk-shaped recording medium in accordance with a recording instruction of the image data train;

detecting means for detecting the flag information in the second management data recorded on the disk-shaped recording medium; and

rewriting means for detecting the recording end address information included in the first management data recorded on the disk-shaped recording medium and recording the recording end address information in the second management data recorded on the disk-shaped recording medium in response to a detection of the flag information by said detecting means.

16. (Original) An apparatus according to Claim 15, wherein said recording means includes encoding means for encoding said image data on a unit basis of n frames and records said encoded image data.

17. (Previously Presented) An apparatus according to Claim 15, wherein in case of recording a new image data group, said control means controls said

recording means so as to overwrite said new image data group onto an address where the first management data of the image data group recorded just before has been recorded.

18. (Currently Amended) A recording method comprising the steps of:
recording on a recording medium image data and management data ~~having~~
said management data including a start address area for recording a start address of the
image data and an end address area for recording an end address of the image data ~~on a~~
~~recording medium of said image data;~~ and

controlling a recording operation in said recording step in such a manner
that a predetermined value, irrespective of recording addresses where the image data are
recorded and except the recording end address, is recorded on the recording medium in the
end address area of the management data in accordance with a recording instruction.

19. (Currently Amended) A recording method comprising the steps of:
recording image data on a disk-shaped recording medium;
instructing a recording of the image data and a recording stop of the image
data, wherein said recording step is arranged to start to record the image data in response to
the recording instruction and stop recording the image data in response to the recording
stop instruction; and

controlling a recording operation in said recording step so as to record on
the disk-shaped recording medium management data including a recording start address

information of the image data and flag data indicating that the recording stop of the image data by the recording stop instruction is not performed in accordance with the recording instruction.

20. (Currently Amended) A recording method comprising the steps of:
- recording an image data train comprising a plurality of image data groups each of which has image data of n frames (n is an integer of 2 or more) on a disk-shaped recording medium; and
- controlling a recording operation in said recording step so as to record the ~~image data train comprising the plurality of image data groups and first management data including recording end address information~~ indicating a recoding address of each of the image data groups ~~train~~ in an image data area on the disk-shaped recording medium ~~every time one image data group is recorded~~, and to record second management data ~~including recording start address information~~ indicating a recording address of the image data train ~~and flag information indicating the recording of the image data is not normally finished in a management data area on the disk-shaped recording medium in accordance with a recording instruction of the image data train;~~
- ~~detecting the flag information in the second management data recorded on the disk-shaped recording medium; and~~
- ~~detecting the recording end address information included in the first management data recorded on the disk-shaped recording medium and recording the~~

recording end address information into the second management data recorded on the disk-shaped recording medium in response to a detection of the flag information by said detecting means.

21. (Currently Amended) A computer-readable recording medium which stores a program for recording image data on a recording medium, wherein said program comprises the steps of:

recording image data and management data having, said management data including a start address area for recording start address of the image data and an end address area for the recording end address of the image data on said recording medium; and controlling a recording operation in said recording step in such a manner that a predetermined value, irrespective of recording addresses where the image data are recorded and except the recording end address, is recorded on the recording medium in the end address area of the management data in accordance with a recording instruction.

22. (Currently Amended) A computer-readable recording medium which stores a program comprising the steps of:

recording image data on a disk-shaped recording medium;

instructing a recording of the image data and a recording stop of the image data, wherein said recording step is arranged to start to record the image data in response to the recording instruction and stop recording the image data in response to the recording stop instruction; and

controlling a recording operation in said recording step so as to record on the disk-shaped recording medium management data including a recording start address information of the image data and flag data indicating that the recording stop of the image data by the recording stop instruction is not performed in accordance with the recording instruction.

23. (Currently Amended) A computer-readable medium which stores a program comprising the steps of:

recording an image data train comprising a plurality of image data groups each of which has image data of n frames (n is an integer of 2 or more) on a disk-shaped recording medium; and

controlling a recording operation in said recording step so as to record the ~~image data train comprising the plurality of image data group and first management data including recording end address information~~ indicating a recording address of each of the image data groups train in an image data area on the disk-shaped recording medium every time one image data group is recorded, and to record second management data including recording start address information indicating a recording address of the image data train and flag information indicating the recording of the image data is not normally finished in a

management data area on the disk-shaped recording medium in accordance with a recording instruction of the image data train:

detecting the flag information in the second management data recorded on the disk-shaped recording medium; and

detecting the recording end address information included in the first management data recorded on the disk-shaped recording medium and recording the recording end address information into the second management data recorded on the disk-shaped recording medium in response to a detection of the flag information by said detecting means.